

Buddy, Can You Spare a Buck?

Year, for the first time in a number of years, the Graduate Students' Association (GSA) is coordinating an appeal to students for the United Way.

\$11,400 is the goal for donations from graduate students alone, said a spokesperson for the GSA.

Every penny helps meet that goal, and no donation is too small to be gratefully received.

For instance . . . if every full-time student on campus could spare just \$1, that would bring in more than \$23,000 to help fund some of the 100 agencies supported by the United Way.

"United Way programs provide benefits to U of A students as well as to citizens in the Edmonton area," says Ron Meleshko, GSA Vice-President (External). "And programs such as the John Howard Society and Win House also provide practicum placements and employment for U of A students."

Cash contributions may be dropped off at the GSA office, 206 North Power Plant, 8:30 a.m. to noon and 1 to 4:30 p.m. Cheques may be mailed. Receipts will be issued for tax purposes. Thank you for helping! □

WE ARE UNITED!



United Way
OF EDMONTON AND AREA

And our Partner, The Red Cross

Our United Way Campaign Passes Two-Thirds Mark

By 30 October, \$101,261.53 had been raised for the University's campus campaign for the United Way.

Generous donations from 510 people have put us two-thirds of the way towards our goal of \$150,000. (This time last year, contributions had been received from 558 members of our community.)

There's still time for you to give a one-time gift, or make a pledge.

Contributions of any size are welcome—no donation is too small to be useful. Pledges and contributions may be sent to the United Way through the Comptroller's Office. More information from 432-3207, the United Way administrator. □

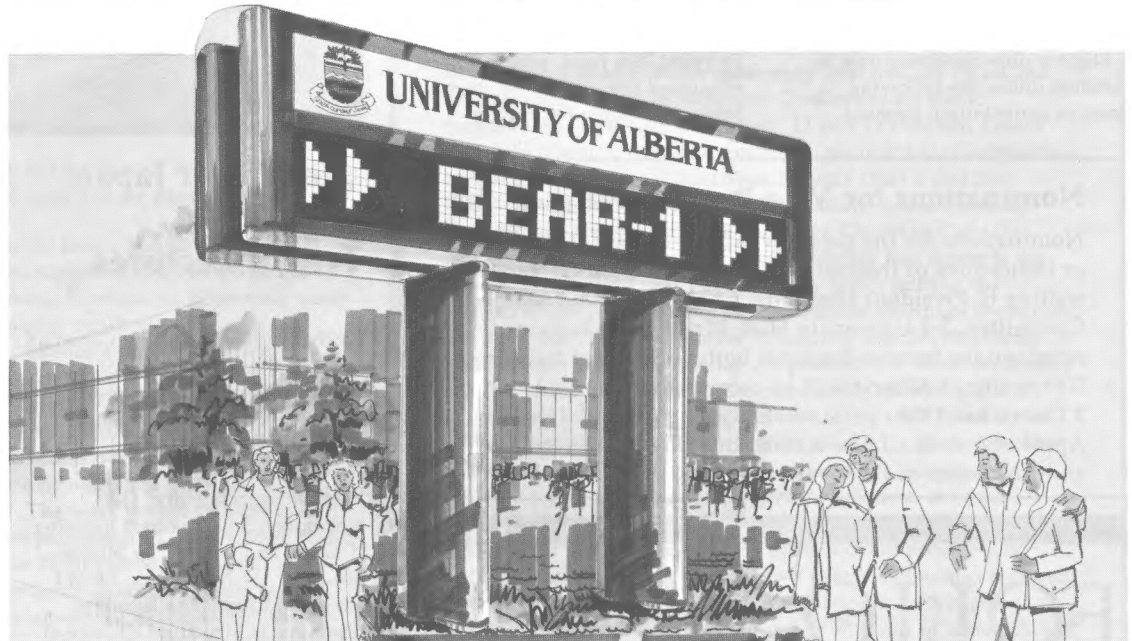
University of Alberta

FOLIO

University of Alberta

6 November 1986

Green and Gold Goes Neon on 87 Avenue



The single matrix message centre, direct from the drawing board.

Now for a message about the medium.

A single matrix message centre, that is, a flashing sign, is on order. As soon as it's manufactured, it will be mounted on a double pedestal positioned about 150 feet northwest of the 87 Avenue and 114 Street intersection.

Look for survey work, the drilling of holes for pilings and trenching (the running of power and cable lines to the Van Vliet Centre) to take place in short order.

The first message should appear early in the new year, says Wayne McCutcheon, Grounds Manager.

The message centre is a rather impressive replacement for the rudimentary sign board that, for the past several years, alerted motorists and pedestrians to dates and times of sports events.

While the centre will be close to the Pavilion and all messages will be programmed by an IBM PC in the Department of Athletics Services, any Faculty or department can request public service announcements or rent the centre to convey messages, Dean Glassford

of Physical Education and Recreation emphasizes. Such events as the President's Walk, Bar None, and University Orientation Days will undoubtedly be promoted in lights.

It's a prime location and it will be even better when you consider the future LRT traffic between the University and the Mackenzie Health Sciences Centre, McCutcheon told *Folio*.

Only University-oriented messages will be run on the double-sided (facing east and west), 24-foot long sign. (The distance from the ground to the top of the sign is 22 feet.)

It takes up to eight seconds for a message to run across the screen which has a dark background and 980 light bulbs tucked out of sight behind a protective covering. Dark brown casing and the University name and crest complete the message centre.

McCutcheon likes the location, the double pedestal arrangement ("it should blend in nicely with the landscape") and, of course, the fact that a grant from the provincial

government through Vice-President (Administration) Warrack's office has made an idea become reality much sooner than anyone could have hoped for. He doesn't, however, favor the installation of any other message centres on campus. The Las Vegas look will be avoided at all costs. □

Contents

- GFC news
- Finishing touches being applied to unique musical video
- 'Activities'
- Hockey without ice and with a twist
- Faculty of Extension profile



6 November 1986

Advanced Education Establishes Endowment and Incentive Fund

Advanced Education Minister Dave Russell recently announced the establishment of the \$80 million Advanced Education Endowment and Incentive Fund, following the commitment made in the Throne Speech of 3 April 1986.

The new Fund will provide additional monies of up to \$16 million per year for the next five years to match privately-raised funds by post-secondary institutions in Alberta.

Eligible donations may now be matched under the following grant-to-contribution formula:

- cash donations in the form of endowments, 2:1;
- cash donations for capital and operating, 1:1;
- donations of books and works of art, 1:1;
- capital gifts-in-kind (other than books or works of art), 1:2.

The Advanced Education Endowment and Incentive Fund replaces the 1980s Advanced Education Endowment Fund which was introduced in May 1980. The 10-year 1980s fund, which will be exhausted ahead of schedule, has been responsible for raising

approximately \$90 million in private contributions. One such project was the Muttart Foundation's \$1.2 million endowment to our University for diabetes research.

"The new Fund will encourage to an even greater extent the involvement of the private sector, organizations, foundations and individual citizens in further developing our post-secondary educational system," Mr. Russell said. □

Nominations for Vice-President (Research)

Nominations for the position of Vice-President (Research) or indications of interest in the position should be made by writing to President Horowitz, Chairman of the Search Committee, 3-1 University Hall. Written applications or nominations from individuals both within and outside the University of Alberta will be received until **1 December 1986**.

Applications should be accompanied by a *curriculum vitae* and the names of three referees.

FOLIO

Volume Twenty-three
Number Fourteen

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Editor

Public Affairs produces *Folio*
on a regular basis for the
staff and other interested
persons.



University
of
Alberta

Deadlines:

Notices of coming events: 9 a.m. three weeks in advance of desired publication date.
Classified advertisements: 3 p.m. one week in advance of desired publication date. This date also serves as the deadline for cancellation of advertisements. Advertisements cost 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.
Display advertisements: 3 p.m. one week in advance of desired publication date. Contact Public Affairs for sizes, rates and other particulars.

The editor reserves the right to select, edit and position submitted copy. Views expressed in *Folio* do not necessarily reflect University policy.

Folio contents may be reprinted with acknowledgment.

ISSN 0015-5764
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GFC Summary

The October meeting of Council was held a week ago last Monday. The following matters were resolved:

- Study space surveys will be conducted in every third academic year, with updates to GFC in intervening years. Table/chair seating in library buildings will gradually be converted to carrell space.

- *Management Information Systems* and *Information Systems Research* constitute a new program endorsed by GFC, subject to the availability of an appropriate level of funding. The program is to be administered by the Faculty of Business and the Department of Computing Science.
- The Faculty of Business gained approval for a policy on "discontinuance of attendance".

Essentially, the policy allows for an interruption in studies for virtually any plausible reason apart from a desire to engage in other formal academic programs.

- The composition of the Board Ways and Means Committee will be as follows: one Governor, two members of the "development community" (off-campus real estate expertise), a member of the academic staff, and a person from University administration.
- V.G. Gourishankar, former AASUA president and Professor of Physics, replaces Dean McDonald of Science as one of two academic staff members of the Board. □

Leisure Ways

Gordon Cherry, Dean, Faculty of Commerce and Social Science, and Professor of Urban and Regional Planning, Centre for Urban and Regional Studies, University of Birmingham, will be the guest of the Department of Recreation and Leisure Studies, 10 to 30 November.

Dr. Cherry will give a public lecture on "The Future of Leisure in an Urbanizing World" on Wednesday, 12 November, from 3 to 4 p.m. in W1, Tory Breezeway. In addition, he will present a number of talks, including "Shaping an Urban World: The Role of Planning and Planners", "Perspectives on Planning", "Social Change, Leisure and Planning" and "The Future of Leisure Studies", to faculty and students.

Dr. Cherry will also visit the University of Calgary's Faculty of Environmental Design and the University of British Columbia's School of Community and Regional Planning. □

'Student of Japan' to Deliver Trio of Lectures

Keith A.J. Hay, a leading Canadian expert on the Japanese economy, will be presenting three public lectures on campus. They are: "The Role of Entrepreneurs and Government Policies in Japan's Postwar Success Story" (14 November, 5-04 Business Building); "Canada and Japan: The Money Business" (17 November, TB-W1 Tory Building); "The Japanese Economy: Is Structural Change at Hand?" (21 November, TB-W1 Tory Building). The latter lecture will focus on Japan's role in the Pacific.

Each lecture will begin at 3 p.m.

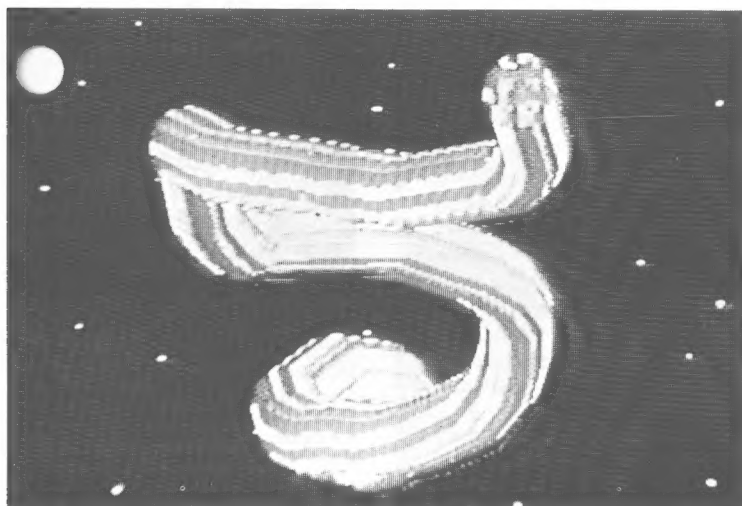
Professor Hay will be a guest of the Department of Economics from 14 to 25 November inclusive. His visit is made possible by the Nakasone Program grants.

The visitor is from Carleton University where he is a member of both the Department of Economics and the Norman Paterson School of International Affairs. He is currently a Visiting Professor of International Relations at the University of Southern California, Los Angeles.

A student of Japan and of Pacific Asia for many years, Professor Hay has received research awards from the Japan Foundation and other research agencies in Japan. For the past 19 years, he has been economic adviser to the Canada-Japan Trade Council.

In September of 1986, he was adviser to the mission of the Canadian International Development Agency to the Philippines. He has published many books and articles on economic relations between Canada and Japan and on economic issues in South-East Asia. □

Watch the Music, Hear the Pictures



These are computer graphics. They are silent. But watch them move to the music they illustrate, and you'll get more out of the music and see more in the pictures.

In the basement of "BioSci," George Arasimowicz (Music) and Don Spence (Radio and TV) are creating a unique musical video—a first for both of them—that will have its first public performance in mid-November.

It all started early this summer, says Arasimowicz (the composer half of the partnership), when he teamed up with Spence to talk about "creating a visual experience to go along with some music I was going to write."

Spence—a video technologist ("I don't think I can be called 'an artist'") who, to that point, had had only limited opportunity to explore the possibilities of computer-generated images—was then inspired to experiment over the summer with a variety of graphics.

Later, viewing the results with Arasimowicz, Spence recalls that "we both perceived there was a tentative theme being developed. Something along the lines of good versus evil or good technology versus bad—although we aren't doing a narrative."

Using that discussion as a starting point, Arasimowicz composed 10 minutes of electronic music. And now the two of them are working on "putting together graphics that will enhance perceptions of the music, and at the same time be a visual experience in themselves," says Arasimowicz. ("Perceptions" is a word that figures heavily in a conversation with the composer, who explains that "you don't just *listen* to music, you have a variety of perceptions about it, some of which are visual.")

Visual effects include electronically manipulated images of a live dancer, computer-generated images that range from hard graphics to simple

color fields, and natural images manipulated in other ways; the music is computer generated, using digital synthesis and sampling.

Spence and Arasimowicz describe their work as "inter-media", because the two experiences are integrated. The graphics need the music, and the music needs the graphics."

The work (as yet unnamed) will be performed in Convocation Hall on 18 November (as part of a program of contemporary music celebrating Canada Music Week). To put it across will require a large screen in front of the stage, up to 20 TV monitors placed around the hall (so that, although everyone in the audience will be able to see a screen, their perceptions will vary according to their seat), two sound systems, and a projection system.

And the work will not be complete until the first items on the concert program have been aired. Then, just before their creation is performed, Arasimowicz and Spence will give it a surprise finishing touch. "And to find out what that is," says Spence, "you'll have to be there." □

Get Twisting for a Good Cause

Almost 100 members of the University's academic and professional staff twisted their own wrists for charity, as the Coleco Twist Hockey Challenge's first wave hit CAB last week.

"I've been warming up, but my calves feel a bit tight," admitted Dean White (Arts), a keen ice hockey player, as he sat down against twist hockey rookie (and *Edmonton Journal* photographer) Steve Simon.



Activities

A Research Associate of the Centre for the Study of Mental Retardation, **Emma Pivato**, has received a \$5,000 grant from the G. Allan Roeher Institute (formerly the National Institute for Mental Retardation) to continue with Phase 2 of her research project on the integration of children with severe handicaps into regular classrooms in public schools . . . **John J.R. Feddes** (Agricultural Engineering) was presented with the Canadian Sheet Steel Building Institute Award at the Annual Meeting of the Canadian Society of Agricultural Engineering held at the University of Saskatoon in July. The award was made for his notable contributions to work on heat, moisture and air quality in animal housing and the development of sensors for measuring heat loss, air speed and air exchange . . . At the McMaster Conference on Slavic Nationalism, McMaster University, 17 and 18 October, **Leszek Kosiński** (Geography) spoke on "Changes in Ethnic Composition of East Central Europe", and **Tom Priestly** (Slavic and East European Studies) on "Cultural Consciousness and Political Nationalism: Determinants of Language Choice in Carinthia, Austria" . . . Busy as beavers . . . crane-driver **Bob Agate** is the steady hand behind that 148-foot crane boom gutting the innards of the Arts Building . . . demolition continues there until the new year . . . **Virgil Santos** (Planning and Development) took a recent busman's holiday . . . planted four trees, six shrubs and 200 bulbs in his west-end garden while he was "off work" . . . **Alfred Dohmann** and his cabinetmaking crew fixed up the Power Plant's food and kitchen areas nicely . . . **Alvin Schrader** (Library Science) has received \$9,200 from the Alberta Foundation for the Literary Arts and \$5,000 from the Small Faculties Fund, Support for the Advancement of Scholarship, to undertake a Canada-wide survey of censorship pressures on public librarians during the past two years. He has also received \$900 from the Canadian Library Association to investigate the availability in selected Canadian public libraries of materials and resources on nuclear disarmament and world peace.

Committee for the Improvement of Teaching and Learning

A vacancy for one faculty member exists on the above committee. Would those who have suggestions for nominations, or who are interested in serving on the Committee for the Improvement of Teaching and Learning please communicate with Pamela Plaskitt, Secretary to the Nominating Committee (432-4715). Nominations should be accompanied by a brief *vita*.

package, a \$2,500 travel certificate, and "hundreds of door prizes." All finalists get an official tourney T-shirt.

Entry fees are \$10, guaranteeing you two 10-minute games, on your way to twist hockey fame.

All proceeds will be directed to the Research and Training Centre for the Physically Disabled on campus. □

"Everybody's been block champion in this game," comments Rueben Dressler, a member of the Young Executives Club which mounted the challenge, now going into its second stage 15 and 16 November at the Butterdome, when 2,000 contestants could hit the semi-finals. Five hundred finalists then head for West Edmonton Mall on 29 November, to match twist hockey skills and shoot for such prizes as a computer business

'Sparks From the Kalevala' Conference

From 20 to 22 November, the University of Alberta will be the site of an international conference on Finland's national folk epic, the *Kalevala*, and many related issues: literature, folklore, history, art, music, anthropology, multiculturalism, science fiction, education, film studies, and women's studies.

Participants include top world scholars in Finnish studies, all of whom necessarily have expertise in other fields as well and who welcome the chance to meet their colleagues at the University of Alberta.

Keynote speaker is Michael Branch, Director of the School of Slavonic and East European Studies at the University of London, England, who will give two papers. He will first discuss the role that *Kalevala* has played in the cultural and political history of Finland. This 22,000-line epic—often compared to the Homeric epics and the Norse Eddas—was first published in 1835 by Elias Lönnrot, a medical doctor who travelled throughout Karelia in eastern Finland collecting the poems, folk tales, magic charms, and songs of the unlettered peasant bards; some parts of the *Kalevala* are 2,500 years old. When the Finnish people were first allowed to use their language officially after the takeover of their country by Russia from Sweden in 1809, there was a swelling of national identity and a surge towards independence. In many ways, the *Kalevala*, which created great interest throughout Europe among writers and folklorists such

as the Brothers Grimm, became an imaginative focal point for the Finns' desire for nationhood, finally achieved in 1917. The rich themes, symbols, and stories of the *Kalevala* also inspired writers such as Eino Leino and Aleksis Kivi, painters such as Akseli Gallen-Kallela, and musicians such as Sibelius—names as familiar in Finland as Shakespeare and Picasso are elsewhere—and *Kalevala* continues today to be a central part of Finnish consciousness.

Branch's second paper will have an anthropological focus: "Elks and Bears as Cult Animals."

Other speakers include the following. J. Donald Wilson, Professor, History of Education, UBC; Edward Laine, Ethnic Archivist at the Public Archives in Ottawa; William A. Wilson, Chairman of English at Brigham Young University in Utah; Adriaan van der Hoeven of the University of Groningen, Holland; Kaarina Kailo, a lecturer in French at the University of Toronto; Olli Alho, Director of the Finnish Film Archives in Helsinki; and K. Börje Vähämäki, of the Department of Scandinavian Studies at the University of Minnesota.

There will also be four panel discussions, one of which will be a feminist discussion of *Kalevala* stereotypes and Finnish women today.

A rare treat at the conference will be a kantele recital by Melvin Kangas, composer and Associate Professor of Music at Suomi College in Michigan. (The kantele is the Finnish harp, said to be first

made from a piek's jawbone and horsehair strings by the wizard Väinämöinen, sometimes called a Finnish Orpheus.)

The conference is sponsored by the University of Alberta Finnish Club and the Cultural Association of Finnish Canadians in Alberta, with the cooperation of the Boreal Institute for Northern Studies.

Program and registration information can be obtained by writing to "Sparks from the *Kalevala*" Conference, c/o Boreal Institute, CW-401 Biological Sciences Centre, or by calling Peter at 432-2026 or Nancy at 432-2171. □

University/ Community Debate: Six on the Floor

There will be many words, fighting and otherwise, spoken at the University/Community debate on 12 November. Just now, however, mum's the word from the official opposition. Gerry Moss (Physics), Martha Piper (Rehabilitation Medicine) and Jason Lucien, a student and a member of the University of Alberta Debating Club, have met to discuss strategy and they aren't about to leak any ideas to the enemy camp.

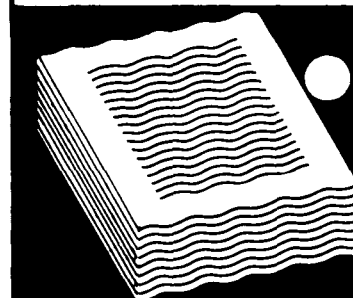
At the second annual University/Community debate organized by the Senate's Community Relations Committee, Drs. Moss and Piper and Mr. Lucien will be opposed by Judy Anderson, a lawyer; Tom Mackay, city manager; and Rev. Ed Lewis. The latter threesome will defend the motion that "the education received at the University of Alberta must now be considered education for a select elite because it only affects a small minority of the population."

Marlene Russell, principal of St. Albert's William D. Cuts Community School, the site of the debate, recruited on behalf of the community; the Community Relations Committee lined up the "against the motion" team.

The debate will get under way at 7:30 p.m. at Cuts School, 149 Larose Drive, St. Albert.

There will be a question period following the debate. Refreshments will be provided by the University's Alumni Association. □

Currents



Talk on the Aid to Scholarly Publications Programme

Michael Carley, Director of the Aid to Scholarly Publications Programme of the Social Science Federation of Canada and the Canadian Federation for the Humanities, will be in Edmonton on 20 and 21 November to talk about this programme and to meet individually with interested scholars to discuss their specific questions.

Dr. Carley will be speaking on the Aid to Scholarly Publications Programme at 3 p.m., Thursday, 20 November, in L-3 Humanities Centre.

Individuals wishing to meet personally with Dr. Carley can contact Mary Mahoney-Robson at 432-3662 before 20 November to arrange an appointment.

New Directions in Information Science Basis of Lecture by Jose-Marie Griffiths

As part of its Special Lecture Series this fall, the Faculty of Library Science, in cooperation with the Alberta Government Library Council, has made arrangements for Jose-Marie Griffiths of King Research Inc. to give a presentation on new directions in library and information science education.

Dr. Griffiths, with a doctorate in Information Science from University College London, has an impressive career as a research scholar, lecturer, and consultant in both the United Kingdom and in the United States. This will be her first visit to Western Canada.

Since 1980 she has been affiliated with King Research Inc. of Washington, D.C., which has undertaken a national study of competencies for librarians dealing with rapidly changing information technology. In addition to studies involving the integration of new technology into a system of 500 libraries, she has performed economic value and cost studies of automated information systems.

For those not participating in the AGLC Workshop, this will be an opportunity to hear about and to question the implications of automation for educating librarians and information specialists.

The lecture will be held in 1-10 Business Building at 4 p.m. Thursday, 13 November. □

Writing Competence Petitions

Notice to students who have not met the University's writing competence requirements and whose deadline for meeting those requirements occurs on or before November 1986 or January 1987: If you plan to enroll in the second term of Winter Session 1986-87 or any subsequent term and you have not yet passed the writing competence test, you may petition the GFC Writing Competence Petition Committee for permission to continue your registration.

Registrations of students who do not successfully petition or pass the writing competence test will be cancelled prior to the start of classes.

Advice on preparing and submitting petitions can be sought from the Student Ombudsmen, 272 Students' Union Building, or the Student Adviser in the Office of the Dean of Student Services, 300 Athabasca Hall. The regulations and procedures used by the GFC Writing Competence Petition Committee are available in either of these offices. Hearings will be held from 25 to 28 November. The deadline for submitting petitions is Thursday, 13 November 1986.

Strength in Numbers Trademark of Faculty of Extension

Item. The Faculty of Extension recently processed 9,800 student registrations in its fall program of certificate credit and non-credit courses. The vast majority of these courses are taught during evenings and on weekends as students must tend to other responsibilities during the day.

E.A. Corbett, Emeritus Director of Extension, would be pleased. His working philosophy of adult education—"that the capacity to acquire knowledge continues throughout life"—constitutes the Faculty's credo.

For 74 years Extension has concerned itself with introducing humanities-based education to people from all walks of life and then nurturing the relationship. Books and films were central to such education early on. In more recent times, they have been joined in ever increasing numbers by telelectures, videocassettes, laser videodiscs and audiocassettes. (The Educational Film Library, for example, contains 575 films on subjects in the humanities; Educational Media Services has upwards of 4,000 audiocassettes, including the largest collection of CBC radio programs available in Canada.)

Dean Dennis Foth feels that the University of Alberta has assumed a leadership role in the area of lifelong learning. At Corbett Hall and the eight other locations on and off campus where Extension is represented they deal with 60,000 to 65,000 people annually (about 23,000 different individuals each year). Most of the repeat traffic is in personal development programs, visual arts courses and liberal studies, the Dean points out. Many of this year's programs are at capacity.

Dean Foth, late of Simon Fraser University (he was Director of Extension Credit Programs and associate member of the Department of Psychology), succeeded Charles Lockwood as Dean of Extension in July 1985. An advocate of educational telecommunications, he is interested in the delivery of cost effective, educationally sound content via new techniques.

He maintains that people in the business have to think *program*, that is, provide courses over time on a sequential basis, as opposed to offering a batch of courses on an ad hoc basis.

The Faculty needs the flexibility to experiment a little and it has been Dr. Foth's experience that encouragement to test the waters has been increasing.



Talking of Women

Sandy Susut, far right, talks with Extension's Dean Dennis Foth and Janina Vanderpost, head of policy and research with Alberta's Women's Secretariat, at last week's open house for the Women's Program and Resource Centre. In the past five years, 7,000 people have been involved in the program's wide-ranging activities, from non-credit courses, to women-centred community development and research projects. Ms. Susut steps down as director at month's end. Cathy Bray is the new director. (Photo: Sheryl Ackerman)

"Part-time students tend to be thought of as add-ons so we tend to 'put on courses' for them instead of programs," he says. "We need to start thinking about programs rather than just slotting part-time students in."

If a new program is to become part of the Faculty's offerings it must be appropriate to the University and Extension must have the expertise that can be brought to bear on it.

The University's non-credit program has shifted its emphasis from general adult education toward the needs of professionals for continuing education. ("The Next Decade and Beyond: A Plan for the Future," page 10.) Extension will run about 1,300 non-credit courses in 1986-87. They will range from a workshop on drug abuse to an extended course on a particular aspect of management. The latter might require students to be present one night a week for three hours.

More liaison with industry is emerging as a priority, Dean Foth says, citing the Downtown Computer Learning Centre, a joint project with Edmonton Telephones, as an example of such cooperation.

The Faculty of Extension Publicity Review Committee, with Associate Dean Wayne Lambie as chairman, is close to issuing its final report. It's expected that a telephone registration system

similar to the one developed by the Registrar's Office will be recommended. The payment of fees by credit card is another matter likely to come under consideration.

It is also probable, Dean Foth says, that the committee will recommend that a full-time program information officer be hired to assist with the advertising program. No blitzes are planned, but there could well be an increase in advertising. The objective will be to produce low-key, informative material that makes people more aware of the various opportunities for professional and personal development.

In the past, the Faculty has relied heavily on general advertising to keep alumni informed about its activities. It's important that we pay more attention to the notification process, Dean Foth told *Folio*. "Continuing professional education is probably still required by many alumni."

The Dean is an *ex officio* member of the University Senate, a position he likes — due in no small part to the annual out-of-town meeting and because "many Senators let us know of community needs." That the Faculty is attuned to the wider community may be seen by its business program arm which coordinates some 60 seminars and short courses per year for supervisors, managers and human resource staff from business,

government and industry.

Programs are available for local government officials outside of the Edmonton area and for public administrators in the three levels of government in the Edmonton area.

With the cooperation of the Nursing Faculty there are continuing education courses, seminars, workshops and conferences for members of the nursing profession. The Legal Resource Centre, funded by the Alberta Law Foundation, conducts public legal education courses and seminars, a native courtworker training program and workshops on issues of concern to the community.

Under the Liberal Studies banner the Faculty provides a host of courses for the general public and programs that appeal to special groups, for example, Spring Session for Seniors and Summer Youth University.

Most teaching is contracted out. Each year Extension engages about 900 sessional instructors of whom about 150 are University staff.

A word about the Office of Special Sessions which joined the fold three years ago. It organizes and administers Spring Session and Summer Session and the off-campus credit program. Last year, Special Sessions offered 590 sections of credit courses (including 110 sections at the graduate level) through Spring and Summer Sessions (total enrolment: 8,694 students). Through the off-campus credit program, 63 course sections were delivered to 1,050 students at 22 locations throughout northern Alberta.

Extension's annual budget is about \$12 million (total cash flow for credit and non-credit programs). The \$5 million supplied by the University is recovered by means of tuition fees.

Being in the business is exciting in that people use disposable income to take general interest courses. It follows that Faculty administrators have to be adept at recognizing needs and spotting trends.

Studies show that 1 in 5 Canadians involve themselves in some type of educational activity each year. In Alberta, the figures are 1 in 4, due in large part to the establishment of various further education councils and to the initiative of H.M. Tory ("We can draw a straight line back to Tory when the University's leadership role is brought up," Dean Foth says) and Dr. Corbett and his successors. □

Positions

The University of Alberta is committed to the principle of equal opportunity in employment and encourages applications from all qualified people.

In accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Arabic Language Teacher

The University of Alberta invites applications for a tenure-track position at the junior assistant professor level in Arabic language, beginning 1 July 1987. Minimum salary for 1986-87 is \$31,612. The successful candidate will be responsible for all levels of Arabic language teaching. Applicants must have command of classical and modern standard Arabic, with native or near-native fluency in a spoken dialect, and an appropriate PhD completed not later than July 1987. Teaching experience, demonstrated research ability and competence in Arabic literature are important.

Applications, including *curriculum vitae*, three confidential letters of recommendation, and transcripts, should be sent to: Dr. P.J. Cahill, Chairman, Department of Religious Studies, University of Alberta, Edmonton, Alberta T6G 2E5. Deadline: 1 February 1987.

Hebrew Language Teacher

The Department of Religious Studies invites applications for a tenure-track appointment in Hebrew language at junior assistant professor level, commencing 1 July 1987. Minimum salary for 1986-87 is \$31,612. The successful candidate will be responsible for all levels of Hebrew language instruction. Completed PhD, demonstrated research and teaching ability, and competence in Hebrew literature are important.

Applications, which should include a *curriculum vitae*, confidential letters of reference from three referees, and transcripts, should be sent to: Dr. P.J. Cahill, Chairman, Department of Religious Studies, University of Alberta, Edmonton, Alberta T6G 2E5, by the 1 February 1987 deadline.

Research Assistant, Department of Chemical Engineering

A research assistant is required for work in the Fuels Research Group in the Department of Chemical Engineering. This individual would work as part of a team on studying the upgrading of heavy oils and bitumens. Duties would include chromatographic analysis, infrared spectroscopy, and the development of new spectroscopic analytical methods. The candidate must have experience in organic chemical analysis and spectroscopy, preferably with a BSc in Chemistry or Chemical Engineering.

The starting salary is \$1,500 per month and the term of the position is for six months, with possibility of extension.

Reply to Dr. M.R. Gray, Department of Chemical Engineering, University of Alberta, Edmonton, Alberta T6G 2G6. Telephone: 432-5805.

Research Associate, Department of Animal Science

A full-time research associate is required to participate in an egg product

development research program. Background in Animal Science, Food Science or Biochemistry with an MSc or BSc and research experience is preferable, but not essential.

Reply in writing to Dr. J.S. Sim, Department of Animal Science, University of Alberta, Edmonton, Alberta T6G 2P5. Telephone: 432-5571.

Support Staff

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. These vacancies cannot be guaranteed beyond the date of publication.

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Programmer Analyst III, Computing Science, (\$2,741-\$3,579)

For vacant Library positions, please contact the Library Personnel Office, Basement, Cameron Library, 432-3339.

Talks

Computing Science

6 November, 3 p.m. Douglas S. Reeves, Pennsylvania State University, "Functional Verification of Digital MOS Circuits." 619 General Services Building.

Chemical Engineering

6 November, 3 p.m. David Hin-Sum Law, "Gravity Separation of Bidisperse Suspensions in Inclined Parallel Plates." E-342 Chemical-Mineral Engineering Building.

English

6 November, 3:30 p.m. Alan Knight, "Who is Fleda Vetch? Negotiating *The Spoils of (Henry James') Poynton*." 5-20 Humanities Centre.

13 November, 12:30 p.m. Ray Smith, Writer-in-Residence, will read from his works. L-3 Humanities Centre.
20 November, 12:30 p.m. Christopher Dewdney will read from his works. L-3 Humanities Centre.

Entomology

6 November, 4 p.m. Robert S. Anderson, "Evolutionary Patterns in North American Cleoninae (Curculionidae)." TB-W1 Tory Building.

Botany

6 November, 4 p.m. D.W. Larson, University of Guelph, "The Ecology of *Ramalina menziesii*. M-145 Biological Sciences Centre.
12 November, 4 p.m. Shirley Bray, "Floristic Analyses of the Bogs and Fens of the Great Lakes Region." M-149 Biological Sciences Centre.
19 November, 4 p.m. Ludean Marvin, "A Floristic Study of the Eklutna Valley, Alaska." M-149 Biological Sciences Centre.

Anatomy

6 November, 4 p.m. David Paul, Instructor, Department of Anatomy and Cellular Biology, Harvard Medical School, "Gap Junction Diversity: Antibody and cDNA Probes." 6-28 Medical Sciences Building.

Physics

7 November, 2 p.m. H.G. Berry, Argonne National Laboratory, "Recent Developments in Relativistic Atomic Physics—An Experimentalist's Point of View." V-121 Physics Building.
14 November, 2 p.m. J.G. Adler, "Scanning Tunneling Spectroscopy." V-121 Physics Building.

Zoology

7 November, 3:30 p.m. Lynne Houck, Department of Biology, University of Chicago, "Sexual Selection and Courtship Pheromone Evolution."
14 November, 3:30 p.m. J.F. Kitchell, UW Center Limnology, University of Chicago, "Sexual Selection and Courtship Pheromone Evolution."
21 November, 3:30 p.m. S. Herrero, Faculty of Environmental Design, University of Calgary, "Swift Fox Reintroduction Into Canada."
All lectures in M-149 Biological Sciences Centre.

Music

10 November, 11 a.m. Bruce Vogt, University of Victoria, "Franz Liszt and Religion." 2-34 Fine Arts Building.
13 November, 3:30 p.m. Gordon Green, Wilfrid Laurier University, "The Musician In Fourteenth Century Society." 2-34 Fine Arts Building.

Alberta Heritage

Foundation for Medical Research

10 November, 4 p.m. Ross MacGillivray, Department of Biochemistry, University of British Columbia, "Structure and Evolution of Blood Clotting Factor Genes." 2F1.04 Mackenzie Health Sciences Centre.
12 November, 3 p.m. Clifford Lingwood, Department of Biochemistry, Hospital for Sick Children, Toronto, "Glycolipid Receptors for Verotoxin." 2F1.04 Mackenzie Health Sciences Centre.
13 November, 3 p.m. Dr. Lingwood, "Sulfolipids in Spermatogenesis." 2-27 Medical Sciences Building.
14 November, 2:30 p.m. Giovanni Pagano, National Cancer Institute, Pascale Foundation, Naples, "The Sea Urchin Bioassay in Developmental, Genetic, and Reproductive Toxicity Testing." 2F1.04 Mackenzie Health Sciences Centre.
17 November, noon. Giovanni Pagano and Colin L. Soskolne, "The Epidemiological and Toxicological Evidence for Chronic Health Effects and the Underlying Biological Mechanisms Involved in

Sub-lethal Exposures to Acidic Pollutants." 2J4.02 Mackenzie Health Sciences Centre.

Forest Science

12 November, noon. Prapan Pukittayacamee, "Seed Maturation in *Acacia auriculiformis*. 4-1 Mechanical Engineering Building.
19 November, noon. Jim Butler, "Parks and Wildlife Conservation in China. The 1986 Expedition into the Remote Arjin Mountains Nature Reserve, Xinjiang, China." 4-1 Mechanical Engineering Building.

Sociology

12 November, noon. Detmar Tschafen, "Habermas's Theory of Communicative Action: An Overview." 5-15 Tory Building.
19 November, noon. Stephen Riggins, "Merging Elite and Popular Culture: Arts Policy in France Since 1981." 5-15 Tory Building.

CITL

12 November, 1 p.m. Don Massey, "Improving Instruction Through Video Taping." 282 Education South.
13 November, 2 p.m. Sharon McGuire, Administrative Studies, Athabasca University, "Making Meetings Work." 2-33 Humanities Centre.
18 November, 10 a.m. Terry Butler, "Computer Literacy." 349 CAB.
19 November, 1:30 p.m. John S. Martin, "Interactive Learning: Computer Dialogues, Simulations, and Games." 221 General Services Building.
20 November, 3 p.m. Hilary Hunt, Director, Dance Program, Victoria Composite High School, and Brian Nielsen, "Developing Communicative Skills: Undergraduate Teaching." T. Tory Building.

Home Economics

12 November, 7 p.m. Marg Meikle, "Cowichan Indian Knitting." \$20 registration fee. 432-2528. Home Economics Building.

Women's Program

12 November, 7:30 p.m. Marjorie Cohen, feminist and economist, Toronto, "The Impact of Free Trade on Jobs, in Social Services and the Ability of Women to Use Social Policy to Correct Injustices." L-1 Humanities Centre. Co-sponsored by the Vice-President's Advisory Committee on Women's Studies and Athabasca University Women's Studies.

Limnology and Fisheries Discussion Group

13 November, 12:30 p.m. Jim Kitchell, University of Wisconsin, "Cascading Trophic Interactions: Food Web Regulation of Productivity." P-319N Biological Sciences Centre.
20 November, 12:30 p.m. Cindy Paszkowski, "Population and Behavioural Ecology of Fish in Small Finnish Lakes." P-319N Biological Sciences Centre.

Romance Languages

13 November, 12:30 p.m. Jon Vincent, Department of Spanish and Portuguese, University of Kansas (Lawrence), "Brazilian Writers and the Brazilian Communist Party, 1922-." L-09 Business Building.
13 November, 4 p.m. Jon Vincent, "The Other Latin American Literature." L-2 Humanities Centre.
14 November, 4 p.m. Jon Vincent, "Reflexions on Guimaraes Rosa." L-2 Humanities Centre.

Plant Science

13 November, 4 p.m. K.K. Kartha, Plant Biotechnology Institute, NRC, Saskatoon, "Biotechnological Approach to Disease Elimination from Plant Breeding Stocks." 811 General Services Building.
14 November, 4 p.m. G. Levitt, DuPont Agricultural Chemicals, Wilmington, Delaware, "Herbicide Discovery—The Structure of Things to Come." 811 General Services Building.

Library Science

13 November, 4 p.m. Jose-Marie Griffiths, King Research Inc., "New Directions in Library and Information Science Education." 1-10 Business Building.

Law

13 November, 7:30 p.m. Public seminar on "Assisting Refugees: The Law, the Issues, the Problems." 231 Law Centre.

Canadian Mediterranean Institute

13 November, 7:30 p.m. Earle Waugh, "Coptic Music." Provincial Museum.

Economics

14 November, 3 p.m. Keith A.J. Hay, Department of Economics, Carleton University, "The Role of Entrepreneurs and Government Policies in Japan's Postwar Success Story." 5-04 Business Building.
17 November, 3 p.m. Professor Hay, "Canada and Japan: The Money Business." TB-W1 Tory Building.
21 November, 3 p.m. Professor Hay, "The Japanese Economy: Is Structural Change at Hand?" TB-W1 Tory Building.

History

14 November, 3:05 p.m. D.H. Brown, "Parliamentary Magic: Sir John Thompson and the Criminal Code of 1892." 2-58 Tory Building.
20 November, 7:30 p.m. Rosamond Faith, University of Oxford, "Ancient Rights and Ancient Writings: Popular Views of Domesday Book and Magna Carta." 2-58 Tory Building.
21 November, 3:05 p.m. M. Katz, "Tatischev's Mission to Spain 1812-1819: Old Views and New." 2-58 Tory Building.

Slavic and East European Studies

17 November, 3 p.m. T. Carlton, "The Third Palatalization of Velars—A Review Report on H.G. Lunt's New Work on this Topic." 776 General Services Building.

Anthropology

18 November, 3 p.m. Tetsuro Matsuzawa, Primate Research Institute, Kyoto University, Japan, and currently at The Primate Center, University of Pennsylvania, "The Visual World in a Chimpanzee." CW-410 Biological Sciences Centre.
19 November, 2 p.m. Dr. Matsuzawa, "Cognitive Development in Man and Chimpanzee." 3-10 Business Building. Lectures co-sponsored by Centre for Systems Research, Centre for Advanced Study in Theoretical Psychology, Linguistics and Psychology.

Lipid and Lipoprotein Research Group

18 November, 4 p.m. Harold Cook, Departments of Pediatrics and Biochemistry, Dalhousie University,

"Mechanisms of Regulation of Fatty Acid and Phospholipid Metabolism in Cultured Cells." 2J4.02 Mackenzie Health Sciences Centre.

Friends of the University of Alberta Museums

18 November, 7:30 p.m. Jeremy Rossiter, "Ceramic Production in Ancient Times." 1-14 Humanities Centre.

St. Joseph's College

24 November, 8 p.m. Rev. Dr. Lois Wilson, O.C., Co-Director of the Ecumenical Forum of Canada and one of the seven Presidents of the World Council of Churches in Geneva, "What—in the World—is God Doing?" L-1 Humanities Centre.

The Arts

Bruce Peel Special Collections Library

Exhibitions on view: "The English Civil War and Interregnum: 1642-1660" and "L'histoire du Costume Féminin Français de l'an 1037 à l'an 1870."

Studio Theatre

Until 15 November. "Crimes of the Heart" and "Godspell." 432-2495.

Ring House Gallery

Until 16 November. "Klaus Staeck Posters"—fifty posters by this German artist.
Until 16 November. "A Tale of Two Cities: Video Art in Alberta"—an historical survey of Alberta video art production since the early 1970s.

Music

All events take place in Convocation Hall.

6 November, 8 p.m. "Opera Scenes"—scenes from operas written by Pergolesi, Mozart, Donizetti and Britten.
7 November, 8 p.m. "Opera Scenes."
9 November, 8 p.m. Faculty Recital—John McPherson, trombone, with the Malcolm Forsyth Trombone Ensemble.
10 November, 8 p.m. Visiting Artist—Bruce Vogt, piano.
16 November, 8 p.m. University of Alberta Concert Choir and St. Cecilia Orchestra. David Hoyt, Norman Nelson and Leonard Ratzlaff, conductors.

SUB Theatre

7 November, 7 p.m. Liona Boyd.
8 November, 7:30 p.m. Eulogio Davalos, Classical and Latin American Guitar, "From Bach to Violeta Parra."

Edmonton Film Society

17 November, 8 p.m. International Series—"Carmen." TL-11 Tory Lecture Theatre.

Radio and Television

Radio

15 November, 7 p.m. "Music at the University of Alberta" presents "Electronic Music." Guest: George Arasimowicz.
22 November, 7 p.m. "Music at the University of Alberta" presents "The Brains Behind the Brawn: The Art of the Accompanist." Guest: Alexandra Munn.

Sports

Fencing

8 and 9 November, 10 p.m. University of Alberta Fencing Club hosts the Wetterburg Open. Strathcona High School.

Wrestling

15 November, 11 a.m. Golden Bears vs. University of Calgary.

Hockey

15 November, 7:30 p.m. Golden Bears vs. University of Calgary.

Basketball

15 November, 7:30 p.m. Pandas vs. Lewis-Clark State College.

Advertisements

Accommodations available

For sale - Unique architecturally designed, 1,400 sq. ft. home. Must be seen. \$114,600. Call Gregg Peters, Royal LePage Real Estate. 437-7480 or 438-6823.

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Sale - By owner. Two-storey, brick, three-bedroom house. South Garneau. Exceptional condition. Sunny heated porch, hardwood floors, fireplace, good-sized garden. 1,500', excluding porch. 439-0521 after 6 p.m.

Sale - Millcreek, close to ravine. Two-bedroom bungalow. Studio. \$64,900. Resi Richter, 483-9432. LePage.

Sale - Inglewood. Charming two-storey, hardwood floors. \$89,900. Resi Richter, 483-9432. LePage.

For rent - Spacious hi-rise overlooking river valley with amenities. Phone 424-2626 or 425-0348.

For sale - Apartment condo. at 6805 112 St. All new rugs. Immediate possession. Price reduced to \$29,500. Call Agnes Fisher, ReMax Real Estate. 438-1575, 434-4080.
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The President's Advisory Committee on Sexual Harassment (PACSH) has a vacancy for one male non-academic staff member.

This candidate would serve as an alternate member of PACSH for a term of office beginning immediately and expiring in June 1989. Alternate membership on PACSH does not require attendance at meetings through the year. Members do, however, serve on panels which assess and investigate sexual harassment cases. Alternate members also assist with the educational campaign. If you are interested in serving on this committee, or if you would like to submit a nomination, please send a brief resume and cover letter by December 2, 1986 to:

Mrs. E.A. Solomon
Coordinator of the Committee
2-5 University Hall

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PUBLIC MEETING ON

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Come out and ask any questions you may have on this study, sponsored by the City of Edmonton, Alberta Environment and the Edmonton Board of Health. The study has been directed at the quality and safety of Edmonton's drinking water.

For further information call Dr. Steve E. Hrudey at 432-5122.

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